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| Form PTO-1469 (modified 2/91) | U.S. DEPT OF COMMERCE Patent and Trademark Office | Attorney Docket Number: MERL-1565 | Serial Number: |
| INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) | | Applicant: Mehta et al. | |
| | | Filing date: Herewith | Group art area: |

U.S. PATENT APPLICATION DOCUMENTS

| Exam- iner Initial | Patent application number | Date | Name | Class | Subclass | Filing date if appropriate |
|--------------------------|------------------------------|------------------|--------------|-------|----------|-------------------------------|
| <i>J</i> | 10/209,306 | July 31, 2002 | Horng et al. | — | — | |

FOREIGN PATENT DOCUMENTS

| | Document number | Date | Country | Class | Subclass | Translation | |
|--|-----------------|------|---------|-------|----------|-------------|----|
| | | | | | | YES | NO |
| | | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

| | |
|-----------------|---|
| 1. <i>T</i> | Foschini et al., "On Limits of Wireless Communications in a Fading Environment when Using Multiple Antennas," <i>Wireless Pers. Commun.</i> , pp. 311-335, 1998. |
| 2. <i>TG</i> | Wolniansky et al., "V-BLAST: An Architecture for Realizing Very High Data Rates Over the Rich-Scattering Wireless Channel," <i>ISSSE</i> , pp. 295-299, 1998. |
| 3. <i>B</i> | Sellathurai et al., "TURBO-BLAST for Wireless Communications: Theory and Experiments," <i>IEEE Trans. Commun.</i> , vol. 50, no. 10, pp. 2538-2546, Oct. 2002. |
| 4. <i>B</i> | Tarokh et al., "Space Time Codes for High Data Rate Wireless Communication," <i>IEEE Trans. Inform. Theory</i> , vol. 44, pp. 744-765, 1999. |
| 5. <i>B</i> | Alamouti, "A simple transmit diversity technique for wireless communications," <i>IEEE J. Selected Areas in Commun.</i> , vol. 16, Oct., pp. 1451-1458, 1998. |
| 6. <i>TG</i> | Zheng and Tse, "Diversity and Multiplexing: A Fundamental Tradeoff in Multiple-Antenna Channels," <i>IEEE Transactions on Information Theory</i> , Vol. 49, No. 5, pp. 1073-1096, May 2003. |

Examiner:

Date Considered:

12/5/05

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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|--|--|--------------------------------------|------------------------------|
| Form PTO-1449 (modified 2/91) | U.S. DEPT OF COMMERCE Patent and Trademark Office | Attorney Docket Number: MERL-1565 | Serial Number: 10/828,625 |
| INFORMATION DISCLOSURE CITATION <i>(use several sheets if necessary)</i> | | | |
| | | Applicant: Mehta et al. | |
| | | Filing date: April 21, 2004 | Group art area: 2682 |

**U.S. PATENT DOCUMENTS**

| Examiner Initial | Patent number | Date | Name | Class | Subclass | Filing date if appropriate |
|------------------|---------------|------|------|-------|----------|----------------------------|
| | | | | | | |

FOREIGN PATENT DOCUMENTS

| | Document number | Date | Country | Class | Subclass | Translation | |
|---|-----------------|---------------|---------|-------|----------|-------------|----|
| | | | | | | YES | NO |
| X | WO2004/014013A1 | Feb. 12, 2004 | PCT | H04L | 1/06 | X | |
| X | EP 1,207,645 A | May 22, 2002 | EPO | H04L | 1/00 | X | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| 4. | |
| Examiner: | <i>Isabel Bely</i> |
| | Date Considered: <i>12/05/05</i> |

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